OFFICE OF THE DEPARTMENT OF NEPHROLOGY
REGIONAL INSTITUTE DF MEDICAL SCIENCES HOSPITAL, IMPHAL
(An autonomous Institute under the Ministry of health & family welfare, govt. of India)

SPECIFICATION FOR BICARBONATE MIXING MACHINE

Single Tank Bicarb, Central Mix and Delivery

GENERAL REQUIREMENTS & SPECIFICATIONS,

1. Water Connections: -	
RO Water Inlet and Outlet Connections	1" stainless steel tee, female pipe thread
Feed and Return Line Connections	3/4" Schedule 80 PVC pipe, female socket, solvent weld
2. Electrical Requirements:	
- All Models	115 VAC, 20 AMP, Dedicated GFCI Outlet
- Location	5' 6" to 6' above finished floor, on the wall, within 5' of the Control Box
3. Drain Requirements:	
- 12" x 12" floor sink preferred	In close proximity to the Bicarb unit
- Drain Connection	1" Schedule 80 PVC pipe, female socket, solvent weld
4. Floor Space:	
- 60 Gallon Single Tank	2' 6" deep x 3' 6" wide x 6' 0" high
5. Operating Weight:	
- 60 Gallon Single Tank	810 lbs

	Dialysis Reprocessing Unit	Dialyzers Reprocessing System 1. Fully automated/computerized dialyzers reprocessing system. 2. High standardization in cleaning, volume measuring, leak testing and chemical disinfecting. 3. No external dilution/ minimize chemical contact. 4. Simultaneously and independently re-process one dialyzer at the time. Dialyzer Reprocessing 1. Reprocessing process: Automatic cleaning, volume measuring, leak testing and chemical filling. 2. Should be able to process all types and brands of dialyzers. Electricity Requirement 1. 100-240 VAC, 50-60 Hz Water requirement 1. RO or DI water in accordance with AAMI standard for haemodialysis. 2. Input pressure 25-30 psi 3. RO water requirement should be as low as 14 to 18 litre/ dialyzers. Display 1. LCD display 2. Data ability to store , display and print/ dialyzer and patient history data and with printer facility. 3. 3.Failure massage status. Chemical Requirement 1. 1.Should able to use eligible and authorized disinfectant 2. Quantity consumed to be specified foe dialyzers, safety Alarms, Audible, & Visible Alarms. Other Requirement 1. Loose connector. 2. Dialyzer volume priming failure. 3. Leak test failure 4. Empty solution. 5. Self-test and disinfection interlock. 6. Priming volume lower than limit. 7. Incoming water pressure e failure 8. Date & Time:/ Reprocessing time 9. 8-13 minutes/ dialysis 10. Data management system. 11. Sterilant volume indicator cartridge. 12. Machine demonstration has to be done in the AIIMS, Jodhpur. Time and date of demonstration will be as per department decision. 13. Facility to check fibre bundle leakage to upgrade software. 14. To test blood port connection and dialyzer header caps for proper fittings. 15. Inbuilt dedicated software and facility to upgrade software. 16. Provision to pressure guage 0-100 PSI and drip tray 17. Provision to disinfectant uptake tube assembly, drain out let pipe 18. To use disinfectant cold reprocessing and sanitization 19. Separate cycle for water sample collection 20. RO water requirement should be as low as 14-18 litres per dialyzers 21. No pre dilution of disinfectant and to use negative pressure test on fibre 22. Filling of bundle volume should be 3 times.	